

Impact onto existing bridge within the influence zone of construction works and special ground conditions And Chemical Risk Assessment and Management at Worksite 8th Run (Virtual Classroom)

**** UTAP – Supported**

**** SFC Funded** [TGS-2022013834](https://www.tgs.gov.sg/2022/01/3834)



Impact onto existing bridge within the influence zone of construction works and special ground conditions (Structural, 6 Hours)

Course Objective

The purpose of the course is to provide an understanding of the possible impact onto bridge structures within the influence zones of the construction works and special ground conditions.

Target Audience

The course is useful and relevant to developers, contractors, project managers, site supervisors, Resident Engineers, Resident Technical Officers and Civil and Structural Engineers who involve in civil engineering works

Course outline

- (1) A brief introduction to common bridge types and elements
- (2) Basic instrumentation and monitoring to the bridge
- (3) Types of works affecting the bridge with case studies
- (4) Types of special ground conditions affecting the bridge with case
- (5) Structural Impact assessment to the bridge
- (6) Actions and Mitigation measures
- (7) Q&A

Target Audience

The course is useful and relevant to developers, contractors, project managers, site supervisors, Resident Engineers, Resident Technical Officers and Civil and Structural Engineers who involve in civil engineering works

Profile of Trainer

Boon Fei is a registered Singapore Professional Engineer. She has won a Design and Engineering Safety Excellence Award from Building Construction Authority for her Sentosa Boardwalk Project and ACES Excellence Design Award for Keppel Viaduct Widening.

She acts as Qualified Person (Permanent Work Design), Professional Engineer and Superintending Officer for several Singapore infrastructure projects.

Boon Fei has 24 years of engineering design and project management experiences relating to bridges, underground cut and cover tunnels, marine infrastructures, buildings (low and high rise residential, industrial commercial), process

Details

Date : 12 & 13 Dec 2024, Thur & Fri

Time : 1.00pm to 6.30pm

Duration: 10 Hours

Delivery Mode: Zoom Webinar

CPD: 2 STU(Safety) – Confirmed

6 STU(Structural) – Confirmed

10 PDU(PEB & CEng) – To Be Confirmed

10 SDU – Confirmed

Course Fee (Include GST)

IES Member: \$359.70 nett

Non-member: \$403.30 nett

E-certificate of Attendance will be awarded to participants who have completed the course survey and assessment.

Target Audience

- Contractors
- Developers
- Resident Engineer & Resident Technical Officer
- Contractor PM, Site Engineers

IES Academy@Jurong East

80 Jurong East Street 21, #04-10
Devan Nair Institute for Employment and
Employability Singapore 609607

Contact Person: Karen Phua

DID: 6461 1239 Main Line: 6463 9211

E-mail: karen@iesnet.org.sg

and chemical plants (oil/gas/chemical complexes and odour treatment plant) and major temporary works in Singapore and overseas.

Effective Chemical Risk Assessment and Management at Worksite (Safety, 4 hours)

Course Objective

The objective of this module is to inculcate Effective Chemical Risk Assessment and Management mindsets through lectures, interactive sharing and group discussions. The module will increase awareness of effective risk assessment procedures dealing with chemicals and the management approaches within a construction worksite, enabling participants to better manage chemical safety on site.

Course Outline

1. Legislative Requirements for Risk Assessment and Management at worksite
2. Understanding Chemical Risk Assessment (CRA)
3. Developing Chemical Risk Register, Control Measures, Safe Operating Procedure
4. Control of Chemical Safety Related Works & Documentation

Target Audience

This course will benefit Construction Stakeholders (especially Resident Engineers, Resident Technical Officers and Resident Architects) involved in supervising the construction work.

Profile of Trainer

Associate Professor, Dr. SIN Siang-Meng, Ivan is currently the program chair professor for the MSc (Safety, Health & Environmental Technology) with the Department of Chemical & Biomolecular Engineering, National University of Singapore. As a certified and experienced emergency operation commander, crisis-emergency planner, fire-explosion Investigator, business continuity practitioner, Dr. SIN comes with more than 28 years of experience in government services and industry practices with the Singapore Civil Defence Force (SCDF), Monetary Authority of Singapore (MAS), Consultant Firm as Head (Hazardous Materials Program), Assistant Director (Crisis & Contingency Planning), Regional Head (EHSS & Business Resilience), and Consultant to projects. His areas of interest are in organization & business resilience, enterprise risk & resource management, corporate crisis and emergency management, business continuity & recovery management, workplace safety & health management, and chemical & process safety management. He is actively involved in various capacities with professional organizations such as the Fire Safety Managers' Association of Singapore (FSMAS), Society of Loss Prevention for Process Industries (SLP), Institution of Fire Engineers (IFE-UK), Institution of Chemical Engineers (IChemE-UK), Association of Company Emergency Response Teams Singapore (A-CERTS), and Technical Committee/Workgroups of ESG Singapore

Pre-requisites for Zoom session

Prior to attending this course, you should:

- Have a PC / laptop / tablet / smart phone with built-in or external webcam.
- Installed the Zoom client.
- Have Wi-Fi / high speed internet connection available.
- Receive an email with a link for you to submit a registration for webinar 1 week prior to the commencement.
- Receive an email with a link and password for you to join the webinar session after your registration is successful.

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IES Academy Virtual

Date: 12 & 13 December 2024, Thursday & Friday

Time: 1.00pm to 6.30pm

Delivery Mode: Zoom Webinar

Course Fee(include GST): IES Member: \$359.70Nett Non-member: \$403.30Nett 403

Please register online/email the completed form by **4 December 2024 before 3 pm** to:

Contact Person: Karen Phua

IES Academy@Jurong East

80 Jurong East Street 21, #04-10

Devan Nair Institute for Employment and Employability Singapore 609607

Tel: 6463 9211 Email address: karen@iesnet.org.sg

*Name : _____ *NRIC : _____
(Please written in BLOCK Letter)

Company : _____ *Designation _____

*Address 1 : _____

* Contact No. : _____ Gender : _____ Male / Female _____

*Your Email : _____

(For sending of confirmation email, preferable personal unless company sponsored)

Please indicate: IES Members IES M'ship No.: _____ P.E. No.: _____ if applicable)

Non-members Sponsored by company


Contact Person Details (if different from participant)

Name: _____ Designation: _____

Tel: _____ Email: _____

Payment Details

Payment via bank transfer or PayNow. All Fees are inclusive of 9% GST.

Beneficiary: IES Academy Pte Ltd Bank: United Overseas Bank SWIFT: UOVBSGSG Bank Code: 7375 Branch Code: 016 Bank Account number: 339-326-153-4	PayNow: IES Academy Pte Ltd UEN:202026912H 
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Acceptance of Terms and Conditions for Registrations of IES Academy's Events

I agree to abide by the Terms and Conditions for Registration of IES Academy's Events.

Name: _____

Signature: _____

TERMS & CONDITIONS COURSE REGISTRATION

Registration

Any registration, whether on-line or fax will be on a ***first-come-first-served basis*** and will only be confirmed upon receipt of full payment by **IES Academy Pte Ltd** unless otherwise invoice to company.

All registrations must be submitted with duly completed registration form.

Closing Date

The closing date of the event will be 1 week prior to event commencement date or earlier.

Confirmation of Registration

Confirmation of registration will be given at least 1 week before the commencement date via email. ***If you do not receive the said confirmation email, you are required to contact IESA at 6463 9211 during office hours.***

IESA reserves the right to allow only confirmed registrants to attend the Event.

Withdrawals/Refunds of Fees

Written notice at least 1 week in advance before the commencement of the event

Full course fee shall be refunded subjected to 4.5% transaction charge.

➤ **NO** refund otherwise.

No show of participant would not be accepted as a valid reason for withdrawal/refund.

One-time replacement is allowed only if written notice is received by us at least 1 week before the commencement of the event. However, when an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees.

Cancellation/Postponement

Changes in Venue, Dates, Time and Speakers for the Events can occur due to unforeseen circumstances. IES reserves the full rights to cancel or postpone the Event under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact person of any cancellation or postponement.

Fees will be refunded in FULL if any Event is cancelled by IESA.

UTAP (Union Training Assistance Programme) is an individual skill upgrading account especially for NTUC members. As a member, you enjoy UTAP funding at 50% of the unfunded course fee capped at \$250 every year.

Please visit [HERE](#) for more information on UTAP claim.

SkillsFuture Credit (SFC) “All Singaporeans aged 25 and above can use their \$500 SkillsFuture Credit from the government to pay for a wide range of approved skills-related courses. Visit the SkillsFuture Credit website (www.skillsfuture.sg/credit) to choose from the courses available on the SkillsFuture Credit course directory.”

Please visit [HERE](#) for more information on SFC & UTAP claim

PERSONAL DATA PROTECTION ACT

I consent to the processing by Institution of Engineers, Singapore of personal data, including sensitive personal data as defined in the Data Protection Act 2014, about me for the proper purposes of Institution of Engineers, Singapore (IES). I undertake to observe the provisions of the Data Protection Act 2014 in relation to any personal data I may myself hold and process as a Members of Institution of Engineers, Singapore, and I agree to indemnify Institution of Engineers, Singapore from liability for any claims or damages that may arise from the processing of this data. For more information kindly refer to [here](#).

Enquiries

For further enquiries, please contact IESA general office at Tel: 6463 9211.